

## Product datasheet for MR229539

### Oprm1 (NM\_001302795) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Oprm1 (NM_001302795) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Oprm1
Synonyms:	m; M-OR-1; MO; MOP-R; mor; MOR-1; MOR-1O; mu; muOR; O; Oprm
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229539 representing NM_001302795 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**C

ATGATGGAAGCTTTCTCTAAGTCTGCATCCAAAAGCTCAGACAGAGAGATGAAATCAAGAGGGGAAGA  
GTTACCTCAGATATACAAAATGAAGACTGCCACCAACATCTACATTTTCAACCTTGCTCTGGCAGATGC  
CTTAGCCACTAGCAGCTGCCCTTTCAGAGTGTTAACTACCTGATGGAAACGTGGCCCTTTGAAACATC  
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GAGTTCTGCATCCCAACTTCTCCACAATCGAACAGAAAACCTCTGCTCGAATCCGTCAAACACTAGGG  
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GATCTTTACAGGATATCCTTCTCCGACTCATGTTGAAAAACCTGCAAGAGTTGCATGGACAGGGAATG  
AGGAACCTTCTTCTGATGATGGCCCAAGACAGGAATCCGGGGAAGGCCAGCTTGGCAGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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Protein Sequence: >MR229539 representing NM\_001302795  
 Red=Cloning site Green=Tags(s)

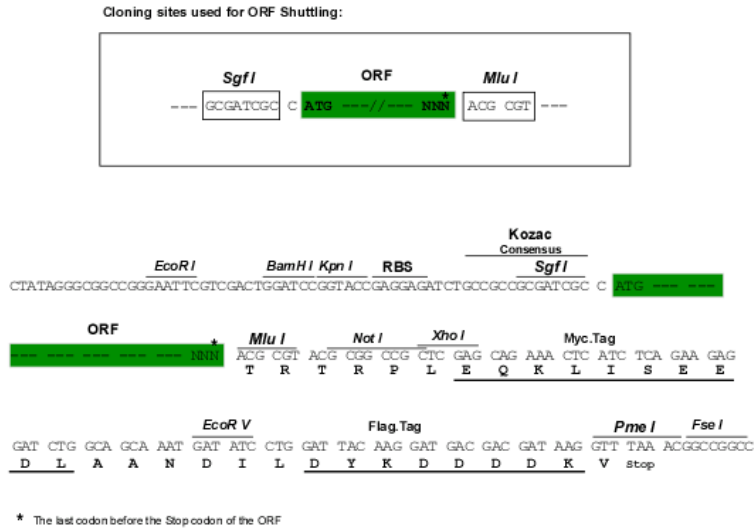
MMEAFSKSAFQKLQRDGNQEGKSYLRYTKMKTATNIYIFNLALADALATSTLFPQSVNYLMGTWPFNGI  
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 KYRQGSIDCTLTFSHPTWYENLLKICVFIFAFIMPVLIITVVCYGLMILRLKSVRMLSGSKEKDRNLRI  
 TRMVLVVAVFIVCWTPIHIIYVIKALITIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDENFKRCFR  
 EFCIPTSSSTIEQQNSARIRQNTREHPSTANTVDRTNHQPTLAVSVAQIFTGYPSPTHVEKPKCKSCMDRGM  
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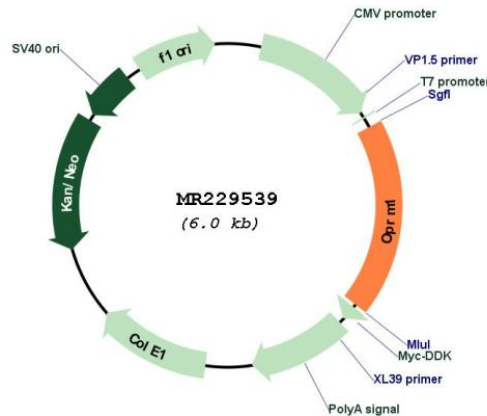
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001302795

<b>ORF Size:</b>	1110 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001302795.1</a> , <a href="#">NP_001289724.1</a>
<b>RefSeq Size:</b>	2179 bp
<b>RefSeq ORF:</b>	1113 bp
<b>Locus ID:</b>	18390
<b>UniProt ID:</b>	<a href="#">P42866</a>
<b>Cytogenetics:</b>	10 1.85 cM
<b>MW:</b>	42.7 kDa
<b>Gene Summary:</b>	This gene encodes the mu opioid receptor which is where drugs such as morphine and other opioids have pharmacological effects. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2014]